

=> d his

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L2 0 S L1

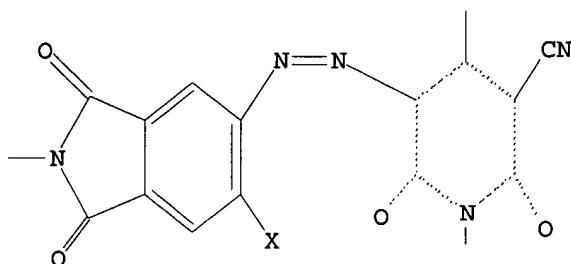
L3 3 S L1 FULL

FILE 'CAPLUS' ENTERED AT 13:16:44 ON 07 JUN 2006

L4 3 S L3

=> d que 14 stat

L1 STR



Structure attributes must be viewed using STN Express query preparation.

L3 3 SEA FILE=REGISTRY SSS FUL L1

L4 3 SEA FILE=CAPLUS ABB=ON PLU=ON L3

=> d bib abs hitstr

L4 ANSWER 1 OF 3 CAPLUS COPYRIGHT 2006 ACS on STN

AN 2004:550985 CAPLUS

DN 141:107626

TI Phthalimidylazo dyes, processes for the preparation thereof and the use

thereof

IN Clement, Antoine; Arquint, Alfons; Lauk, Urs

PA Ciba Specialty Chemicals Holding Inc., Switz.

SO PCT Int. Appl., 18 pp.

CODEN: PIXKD2

DT Patent

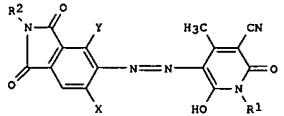
LA English

FAN.CNT 1

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE | |
|------------------|------|--|-----------------|----------|--|
| PI WO 2004056926 | A1 | 20040708 | WO 2003-EP50956 | 20031208 | |
| | W: | AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW | | | |
| | RW: | BW, GH, GM, KE, LS, MM, MZ, SD, SL, S2, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, C2, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, | | | |

| | | | | |
|------------------|----|--|------------------|----------|
| TG AU 2003300262 | A1 | 20040714 | AU 2003-300262 | 20031208 |
| EP 1572808 | A1 | 20050914 | EP 2003-79542 | 20031208 |
| | R: | AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK | | |
| CN 1729253 | A | 20060201 | CN 2003-80107116 | 20031208 |
| JP 2006510772 | T2 | 20060330 | JP 2004-561487 | 20031208 |
| US 2006046596 | A1 | 20060302 | US 2005-538892 | 20050614 |

PRAI EP 2002-406118 A 20021219
WO 2003-EP50956 W 20031208
OS MARPAT 141:107626
GI



AB Disperse azo dyes containing phthalimidyl and pyridone groups with improved washfastness in dyeing of hydrophobic fibers have the structure: I (R₁ = C1-12 alkyl or C_nH_{2n}(OCH₂CH₂)_mO₃, n = 2-8, m = 0-4, R₃ = C1-12 alkyl or C₆-24 aryl, or C₆-24 aralkyl, R₂ = Me, Et, Pr, Bu, 2-methoxyethyl or 2-ethoxyethyl, X = halo, Y = H, Cl, or Br).

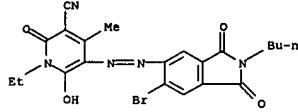
IT 717921-49-8P

L4 ANSWER 1 OF 3 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)

RL: IMP (Industrial manufacture); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)
(disperse phthalimidylazo dyes contg. pyridone groups with improved washfastness in dyeing hydrophobic fibers)

RN 717921-49-8 CAPLUS

CN 3-Pyridinecarbonitrile, 5-[(6-bromo-2-butyl-2,3-dihydro-1,3-dioxo-1H-isindol-5-yl)azo]-1-ethyl-1,2-dihydro-6-hydroxy-4-methyl-2-oxo- (9CI) (CA INDEX NAME)

RE.CNT 5 THERE ARE 5 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

=> d 2-3 bib abs hitstr

L4 ANSWER 2 OF 3 CAPLUS COPYRIGHT 2006 ACS on STN

AN 1979:56333 CAPLUS

DN 90:56333

TI Pyridone azo dyes

IN Imahori, Seiichi; Himeno, Kiyoshi; Okada, Itaru; Abe, Katsumi; Maeda, Shuichi

PA Mitsubishi Chemical Industries Co., Ltd., Japan

SO Jpn. Kokai Tokkyo Koho, 13 pp.

CODEN: JKXKAF

DT Patent

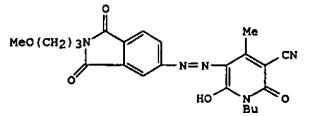
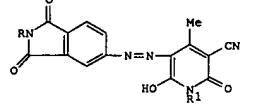
LA Japanese

FAN.CNT 1

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|----------------|------|----------|-----------------|----------|
| PI JP 53119930 | A2 | 19781019 | JP 1977-35087 | 19770329 |
| JP 55030747 | B4 | 19800813 | | |

PRAI JP 1977-35087

GI



AB Greenish yellow pyridone azo dyes containing a phthalimide group (I; R, R1 = H, alkyl, aralkyl, aryl) were prepared and used for dyeing polyester fibers

at 130°. For example, 5-amino-N-(3-methoxypropyl)phthalimide [26849-84-3] was diazotized and coupled with 1-butyl-3-cyano-6-hydroxy-4-methyl-2-pyridone [39108-47-9] to give II [68930-98-3].

IT 64864-00-2

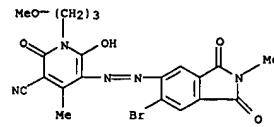
RL: TEM (Technical or engineered material use); USES (Uses)
(dye, for polyester fibers, manufacture of)

RN 64864-00-2 CAPLUS

CN 3-Pyridinecarbonitrile, 5-[(6-bromo-2,3-dihydro-2-methyl-1,3-dioxo-1H-isindol-5-yl)azo]-1,2-dihydro-6-hydroxy-1-(3-methoxypropyl)-4-methyl-2-oxo- (9CI) (CA INDEX NAME)

L4 ANSWER 2 OF 3 CAPLUS COPYRIGHT 2006 ACS on STN

(Continued)



L4 ANSWER 3 OF 3 CAPLUS COPYRIGHT 2006 ACS on STN

AN 1978:24246 CAPLUS

DN 88:24246

TI Azo dyes for polyester and acetate fibers

IN Imahori, Seiichi; Okada, Itaru; Maeda, Shuichi

PA Mitsubishi Chemical Industries Co., Ltd., Japan

SO Jpn. Kokai Tokkyo Koho, 9 pp.

CODEN: JKXKAF

DT Patent

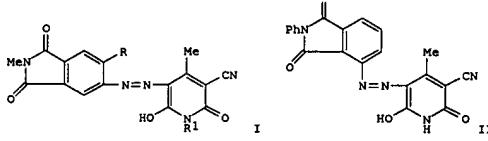
LA Japanese

FAN.CNT 1

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|----------------|------|----------|-----------------|----------|
| PI JP 52085584 | A2 | 19770715 | JP 1976-2597 | 19760112 |
| JP 53022194 | B4 | 19780707 | | |

PRAI JP 1976-2597

GI



AB Polyester fiber was dyed with I (R = Cl, R1 = Me) [64863-99-6] and I (R = Br, R1 = (CH2)3OMe) [64864-00-2] and diacetate fiber with II [64864-01-3] in greenish yellow shade, and the dyes were prepared by coupling of diazotized aminonaphthalimides with appropriate pyridine derivs.

IT 64863-99-6 - 64864-00-2

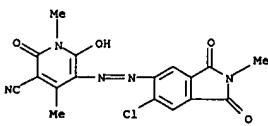
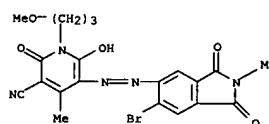
RL: TEM (Technical or engineered material use); USES (Uses)
(dyes, for polyester fibers, preparation of)

RN 64863-99-6 CAPLUS

CN 3-Pyridinecarbonitrile, 5-[(6-chloro-2,3-dihydro-2-methyl-1,3-dioxo-1H-isindol-5-yl)azo]-1,2-dihydro-6-hydroxy-1,4-dimethyl-2-oxo- (9CI) (CA INDEX NAME)

L4 ANSWER 3 OF 3 CAPLUS COPYRIGHT 2006 ACS on STN

(Continued)



RN 64864-00-2 CAPLUS

CN 3-Pyridinecarbonitrile, 5-[(6-bromo-2,3-dihydro-2-methyl-1,3-dioxo-1H-isindol-5-yl)azo]-1,2-dihydro-6-hydroxy-1-(3-methoxypropyl)-4-methyl-2-oxo- (9CI) (CA INDEX NAME)

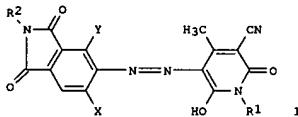
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L5 20 SEA FILE=CAPLUS ABB=ON PLU=ON "CLEMENT ANTOINE"/AU
L6 12 SEA FILE=CAPLUS ABB=ON PLU=ON "ARQUINT ALFONS"/AU
L7 39 SEA FILE=CAPLUS ABB=ON PLU=ON ("LAUK URS"/AU OR "LAUK URS
H"/AU)
L8 49 SEA FILE=CAPLUS ABB=ON PLU=ON L5 OR L6 OR L7
L9 6 SEA FILE=CAPLUS ABB=ON PLU=ON L8 AND PHTHALIM?

=> d 1-6 bib abs

L9 ANSWER 1 OF 6 CAPLUS COPYRIGHT 2006 ACS on STN
 AN 2004:550956 CAPLUS
 DN 141:107626
 TI Phthalimidylo dyes, processes for the preparation thereof and
 their use thereof
 IN Clement, Antoine; Arquint, Alfonz; Leuk, Urs
 PA Ciba Specialty Chemicals Holding Inc., Switz.
 SO PCT Int. Appl., 18 pp.
 CODEN: PIXXD2

DT Patent
 LA English
 FAN.CNT 1

| | PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|------|---|------|----------|------------------|----------|
| PI | WO 2004056926 | A1 | 20040708 | WO 2003-EP50956 | 20031208 |
| | W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW | | | | |
| | RW: BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, | | | | |
| TG | AU 2003300262 | A1 | 20040714 | AU 2003-300262 | 20031208 |
| | EP 1572808 | A1 | 20050914 | EP 2003-799542 | 20031208 |
| | R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK | | | | |
| | CN 17229253 | A | 20060201 | CN 2003-80107116 | 20031208 |
| | JP 2006510772 | T2 | 20060330 | JP 2004-561487 | 20031208 |
| | US 2006046596 | A1 | 20060302 | US 2005-538892 | 20050614 |
| PRAI | EP 2002-406118 | A | 20021219 | | |
| | WO 2003-EP50956 | W | 20031208 | | |
| OS | MARPAT 141:107626 | | | | |
| GI | | | | | |

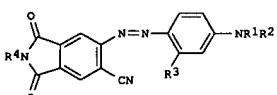


AB Disperse azo dyes containing phthalimidylo and pyridone groups with improved washfastness in dyeing of hydrophobic fibers have the structure:
 I (R1 = C1-12 alkyl or $\text{CnH}_2\text{n}(\text{OCH}_2\text{CH}_2)_m\text{OR}_3$, n = 2-8, m = 0-4, R3 = C1-12 alkyl, C6-24 aryl, or C6-24 aralkyl, R2 = Me, Et, Pr, Bu, 2-methoxyethyl or 2-ethoxyethyl, X = halo, Y = H, Cl, or Br).

L9 ANSWER 2 OF 6 CAPLUS COPYRIGHT 2006 ACS on STN
 AN 2004:430871 CAPLUS
 DN 140:424967
 TI Phthalimidylo-azo dyes, their production and their use
 IN Clement, Antoine; Arquint, Alfonz; Leuk, Urs
 PA Ciba Specialty Chemicals Holding Inc., Switz.
 SO PCT Int. Appl., 20 pp.
 CODEN: PIXXD2

DT Patent
 LA English
 FAN.CNT 1

| | PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|------|---|------|----------|-----------------|----------|
| PI | WO 2004044058 | A1 | 20040527 | WO 2003-EP12282 | 20031104 |
| | W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW | | | | |
| | RW: BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, | | | | |
| TG | AU 2003276247 | A1 | 20040603 | AU 2003-276247 | 20031104 |
| | EP 1560883 | A1 | 20050810 | EP 2003-810962 | 20031104 |
| | R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK | | | | |
| | JP 2006505662 | T2 | 20060216 | JP 2004-550922 | 20031104 |
| | US 2006101594 | A1 | 20060518 | US 2005-533010 | 20050428 |
| PRAI | EP 2002-405967 | A | 20021111 | | |
| | WO 2003-EP12282 | W | 20031104 | | |
| OS | MARPAT 140:424967 | | | | |
| GI | | | | | |



AB The invention relates to disperse azo dyes [I; R1 = 2-methoxyethyl, 2-ethoxyethyl, 2-(2-ethoxyethoxy)ethyl; R2 = optionally substituted C1-6-alkyl; R3 = Me, hydroxy, halogen, NH₂O₂R₅, or NHCO₂R₆, wherein R5 is Me or Et and R6 is Me, Et, methoxymethyl, or 2-methoxyethyl; R4 = Et, Pr] and a process for their preparation and to their use in the dyeing or printing of semi-synthetic and especially synthetic hydrophobic textile materials. I have good fastness to washing. In an example, 3-amino-4-bromo-N-ethylphthalimide was diazotized and coupled with 3-acetamido-N,N-bis(2-methoxyethyl)aniline to give a yellowish-brown monoazo product which was treated with cyanide (Br displacement) to give

L9 ANSWER 1 OF 6 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)
 RE.CNT 5 THERE ARE 5 CITED REFERENCES AVAILABLE FOR THIS RECORD
 ALL CITATIONS AVAILABLE IN THE RE FORMAT

L9 ANSWER 2 OF 6 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)
 cyano-substituted violet dye which was effective for dyeing of polyester fabric.
 RE.CNT 10 THERE ARE 10 CITED REFERENCES AVAILABLE FOR THIS RECORD
 ALL CITATIONS AVAILABLE IN THE RE FORMAT

L9 ANSWER 3 OF 6 CAPLUS COPYRIGHT 2006 ACS on STN

AN 2002:736334 CAPLUS

DN 137:249071

TI Phthalimidyl disperse azo dyes, their production and their use

IN Clement, Antoine; Wilhelm, Jean-Claude; Arquint, Alfons

; Lauk, Urs

PA Ciba Specialty Chemicals Holding Inc., Switz.

SO PCT Int. Appl., 19 pp.

CODEN: PIXXD2

DT Patent

LA English

FAN.CNT 1

| | PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|----------------------|---|----------|----------------|-----------------|----------|
| PI | WO 2002074864 | A1 | 20020926 | WO 2002-EP903 | 20020129 |
| | W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZM, ZW | | | | |
| | RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GO, GW, ML, MR, NE, SN, TD, TG | | | | |
| EP 1358273 | A1 | 20031105 | EP 2002-711819 | | 20020129 |
| | R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR | | | | |
| CN 1491258 | A | 20040421 | CN 2002-804649 | | 20020129 |
| JP 2004529435 | T2 | 20040916 | JP 2002-573863 | | 20020129 |
| US 2004116681 | A1 | 20040617 | US 2003-467265 | | 20030804 |
| US 7012137 | B2 | 20060314 | | | |
| PRAI EP 2001-810128 | A | 20010207 | | | |
| WO 2002-EP903 | W | 20020129 | | | |
| OS MARPAT 137:249071 | | | | | |
| GI | | | | | |



AB The invention relates to bromophthalimide-based disperse monoazo dyes (I; R = H, Br; R1 = H, Me, Cl-4-alkylcarboxamido; R2, R3 = Cl-4-alkyl substituted by Cl-4-alkoxy), their production from 5-amino-N-methylphthalimide-based diazo components and substituted aniline coupling components, and their use in dyeing or printing semi-synthetic and especially synthetic hydrophobic fiber materials, especially textile materials. I are characterized

L9 ANSWER 4 OF 6 CAPLUS COPYRIGHT 2006 ACS on STN

AN 2002:676107 CAPLUS

DN 137:202626

TI Phthalimidyl azo disperse dyes, their production and their use

on textiles

IN Clement, Antoine; Wilhelm, Jean-Claude; Arquint, Alfons

; Lauk, Urs

PA Ciba Specialty Chemicals Holding Inc., Switz.

SO PCT Int. Appl., 14 pp.

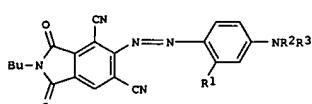
CODEN: PIXXD2

DT Patent

LA English

FAN.CNT 1

| | PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|----------------------|---|----------|------------------|-----------------|----------|
| PI | WO 2002068539 | A1 | 20020906 | WO 2002-EP904 | 20020129 |
| | W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZM, ZW | | | | |
| | RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GO, GW, ML, MR, NE, SN, TD, TG | | | | |
| EP 1358274 | A1 | 20031105 | EP 2002-719738 | | 20020129 |
| | R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR | | | | |
| CN 1491259 | A | 20040421 | CN 2002-804702 | | 20020129 |
| JP 2004524408 | T2 | 20040812 | JP 2002-568642 | | 20020129 |
| TW 593555 | B | 20040621 | TW 2002-91101964 | | 20020205 |
| US 2004097716 | A1 | 20040520 | US 2003-467263 | | 20030804 |
| PRAI EP 2001-810127 | A | 20010207 | | | |
| WO 2002-EP904 | W | 20020129 | | | |
| OS MARPAT 137:202626 | | | | | |
| GI | | | | | |



AB The present invention relates to disperse dyes (I; R1 = H, Me, Cl-4-alkoxycarbonylamino; R2, R3 = Cl-4-alkyl optionally interrupted by O) and their production from N-butyl-5-aminophthalimide diazo components as well as their use in dyeing and printing of synthetic hydrophobic textile materials. The dyes have good fastness properties, especially to washing. An example was given for the production of a blue dye using 5-amino-4,6-dibromo-N-butyphthalimide as the diazo component and 3-(N,N-bis(2-

L9 ANSWER 3 OF 6 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)
by good washing fastness. In an example, 5-amino-4,6-dibromo-2-methoxyphthalimide was diazotized and coupled with 3-acetamido-N,N-bis(2-methoxyethyl)aniline to give a dye which conferred red-brown shades on polyester.

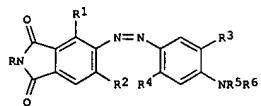
RE.CNT 3 THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L9 ANSWER 4 OF 6 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)
methoxyethyl)aminoacetanilide as the coupling component; the Br groups in the coupling product were converted to CN in the final step. The dye was applied to polyester.

RE.CNT 3 THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L9 ANSWER 5 OF 6 CAPLUS COPYRIGHT 2006 ACS on STN
 AN 2000:475732 CAPLUS
 DN 133:90729
 TI Phthalimidyl azo disperse dyes, their production and their use
 IN Leuk, Urs; Clement, Antoine; Dreier, Romeo;
 Arquint, Alfonso
 PA Ciba Specialty Chemicals Holding Inc., Switz.
 SO PCT Int. Appl., 27 pp.
 CODEN: PIXKD2
 DT Patent
 LA German
 FAN.CNT 1

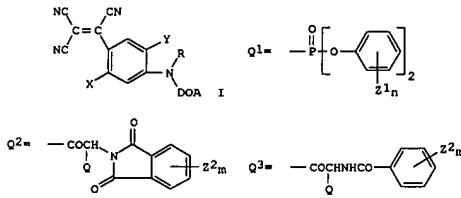
| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|---------------------|------|---|-----------------|----------|
| PI WO 2000040656 | A1 | 20000713 | WO 1999-EP10396 | 19991227 |
| | W: | AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM RW: GH, GM, KE, LS, MW, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG | | |
| EP 1141138 | A1 | 20010110 | EP 1999-965559 | 19991227 |
| EP 1141138 | B1 | 20040915 | | |
| | R: | AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO | | |
| JP 2002534551 | T2 | 20021015 | JP 2000-592357 | 19991227 |
| AT 276319 | E | 20041015 | AT 1999-965559 | 19991227 |
| ES 2228159 | T3 | 20050401 | ES 1999-965559 | 19991227 |
| US 6555664 | B1 | 20030429 | US 2001-869503 | 20010628 |
| PRAI EP 1998-124859 | A | 19981231 | | |
| WO 1999-EP10396 | W | 19991227 | | |
| OS MARPAT 133:90729 | | | | |
| GI | | | | |



AB The dyes (I; R = Me, Bu; R1 H, halogen, cyano, nitro; R2 = halogen, cyano; R3 = H, halogen, Cl-4-alkyl, Cl-4-alkoxy; R4 = H, Cl-4-alkyl, halogen, CF3, alkanamido; R5, R6 = Cl-4-alkyl (when R = Me) or alkoxycarbonylethyl (when R = Bu with the proviso that R4 is not Cl or acetamido) are obtained from 5-aminophthalimide derivs. as the diazo components. I have improved fastness to perspiration and washing, especially when used as disperse

L9 ANSWER 6 OF 6 CAPLUS COPYRIGHT 2006 ACS on STN
 AN 1990:408015 CAPLUS
 DN 113:8015
 TI Tricyanovinyl group-containing disperse dyes
 IN Liechti, Peter; Clement, Antoine
 PA Ciba-Geigy A.-G., Switz.
 SO Eur. Pat. Appl., 17 pp.
 CODEN: EPXXDW
 DT Patent
 LA German
 FAN.CNT 1

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|--------------------|------|--------------------------------|-----------------|----------|
| PI EP 351367 | A2 | 19900117 | EP 1989-810504 | 19890704 |
| EP 351367 | A3 | 19910918 | | |
| | R: | BE, CH, DE, ES, FR, GB, IT, LI | | |
| US 4992558 | A | 19910212 | US 1989-376790 | 19890707 |
| BR 8903390 | A | 19900213 | BR 1989-3390 | 19890711 |
| JP 02073862 | A2 | 19900313 | JP 1989-177261 | 19890711 |
| PRAI CH 1988-2644 | A | 19880711 | | |
| OS MARPAT 113:8015 | | | | |
| GI | | | | |



AB The title dyes I [A = Q1-Q3; Z1 = Cl-9 alkyl, C5-7 cycloalkyl, halogen, Cl-4 alkoxy; Q = H, Cl-4 alkyl; Z2 = halogen; m = 0-4; n = 0-3; D = (un)branched C2-6 alkylene; R = H, Cl-12 alkyl, Cl-4 alkoxy, halogen; X = H, Cl-4 alkyl, Cl-4 alkoxy, halogen; Y = H, halogen, Cl-4 alkyl, Cl-4 alkoxy, alkoxyalkyl, alkoxyalkoxy], useful for dyeing or printing of polyester fibers, are prepared. Thus, PhN(CH2CH2OH)Et was esterified with 2-

X = Y = H), a red-brown powder.

L9 ANSWER 5 OF 6 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)
 dyes on polyester. Thus, 5-amino-6-bromo-N-methylphthalimide-3-[N-(1-(ethoxycarbonyl)ethyl)-N-methylamino]acetanilide was obtained to provide brilliant red shades on polyester.
 RE.CNT 6 THERE ARE 6 CITED REFERENCES AVAILABLE FOR THIS RECORD
 ALL CITATIONS AVAILABLE IN THE RE FORMAT

=> d his full

(FILE 'HOME' ENTERED AT 13:16:01 ON 07 JUN 2006)

FILE 'REGISTRY' ENTERED AT 13:16:09 ON 07 JUN 2006

L1 STRUCTURE UPLOADED
D

L2 0 SEA SSS SAM L1
L3 3 SEA SSS FUL L1

FILE 'CPLUS' ENTERED AT 13:16:44 ON 07 JUN 2006

L4 3 SEA ABB=ON PLU=ON L3
D QUE L4 STAT
D BIB ABS HITSTR
D 2-3 BIB ABS HITSTR
E CLEMENT ANTOINE/AU
L5 20 SEA ABB=ON PLU=ON "CLEMENT ANTOINE"/AU
E ARQUINT ALFONS/AU
L6 12 SEA ABB=ON PLU=ON "ARQUINT ALFONS"/AU
E LAUK URS/AU
L7 39 SEA ABB=ON PLU=ON ("LAUK URS"/AU OR "LAUK URS H"/AU)
L8 49 SEA ABB=ON PLU=ON L5 OR L6 OR L7
L9 6 SEA ABB=ON PLU=ON L8 AND PHTHALIM?
D QUE L9 STAT
D 1-6 BIB ABS

FILE HOME

FILE REGISTRY

Property values tagged with IC are from the ZIC/VINITI data file provided by InfoChem.

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DICTIONARY FILE UPDATES: 6 JUN 2006 HIGHEST RN 887000-62-6

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*
* The CA roles and document type information have been removed from *
* the IDE default display format and the ED field has been added, *
* effective March 20, 2005. A new display format, IDERL, is now *
* available and contains the CA role and document type information. *
*

Structure search iteration limits have been increased. See HELP SLIMITS for details.

REGISTRY includes numerically searchable data for experimental and predicted properties as well as tags indicating availability of experimental property data in the original document. For information

on property searching in REGISTRY, refer to:

<http://www.cas.org/ONLINE/UG/regprops.html>

FILE CAPLUS

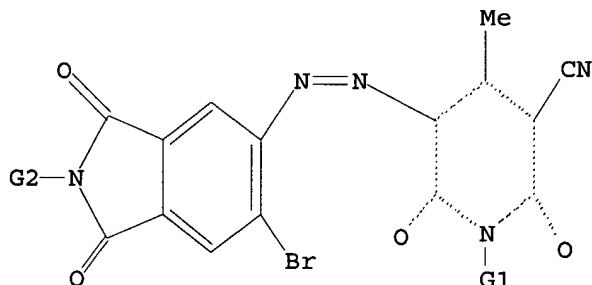
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FILE COVERS 1907 - 7 Jun 2006 VOL 144 ISS 24
 FILE LAST UPDATED: 6 Jun 2006 (20060606/ED)

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<http://www.cas.org/infopolicy.html>

=> => d que l13 stat
 L10 STR



G1 Me,Et,n-Bu,i-Bu,s-Bu,t-Bu
 G2 n-Bu,i-Bu,s-Bu,t-Bu

Structure attributes must be viewed using STN Express query preparation.

L12 1 SEA FILE=REGISTRY SSS FUL L10
 L13 1 SEA FILE=CAPLUS ABB=ON PLU=ON L12

=> d bib abs hitstr

L13 ANSWER 1 OF 1 CAPLUS COPYRIGHT 2006 ACS on STN

AN 2004:550985 CAPLUS

DN 141:107626

TI Phthalimidylazo dyes, processes for the preparation thereof and the use thereof

IN Clement, Antoine; Arquint, Alfons; Lauk, Urs

PA Clariant Specialty Chemicals Holding Inc., Switz.

SO PCT Int. Appl., 18 pp.

CODEN: PIXXD2

DT Patent

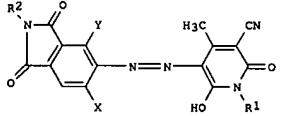
LA English

FAN.CNT 1

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|------------------|------|--|-----------------|---|
| PI WO 2004056926 | A1 | 20040708 | WO 2003-EP50956 | 20031208 |
| | W: | AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HK, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, N2, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW | RW: | BW, GH, GM, KE, LS, MM, MZ, SD, SL, S2, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, |

| | | | | | | | |
|----|---------------|--|------------|------------------|----------|------------------|----------|
| TG | AU 2003300262 | A1 | 20040714 | AU 2003-300262 | 20031208 | | |
| | EP 1572808 | A1 | 20050914 | EP 2003-799542 | 20031208 | | |
| | R: | AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, C2, EE, HU, SK | CN 1729253 | A | 20060201 | CN 2003-80107116 | 20031208 |
| | CN 1729253 | A | 20060201 | CN 2003-80107116 | 20031208 | | |
| | JP 2006510772 | T2 | 20060330 | JP 2004-561487 | 20031208 | | |
| | US 2006046596 | A1 | 20060302 | US 2005-538892 | 20050614 | | |

PRAI EP 2002-406118 A 20021219
 WO 2003-EP50956 W 20031208
 OS MARPAT 141:107626
 GI



AB Disperse azo dyes containing phthalimidyl and pyridone groups with improved washfastness in dyeing of hydrophobic fibers have the structure: I (R1 = Cl-12 alkyl or $\text{CnH}_{2n}(\text{OCH}_2\text{CH}_2)_m\text{OR}_3$, n = 2-8, m = 0-4, R3 = Cl-12 alkyl, C6-24 aryl, or C6-24 aralkyl, R2 = Me, Et, Pr, Bu, 2-methoxyethyl or 2-ethoxyethyl, X = halo, Y = H, Cl, or Br).

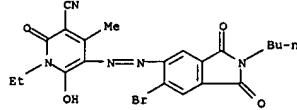
IT 717921-49-BP

L13 ANSWER 1 OF 1 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)
 RL: IMP (Industrial manufacture); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)

(disperse phthalimidylazo dyes contg. pyridone groups with improved washfastness in dyeing hydrophobic fibers)

RN 717921-49-8 CAPLUS

CN 3-Pyridinecarbonitrile, 5-[(6-bromo-2-butyl-2,3-dihydro-1,3-dioxo-1H-isindol-5-yl)azo]-1-ethyl-1,2-dihydro-6-hydroxy-4-methyl-2-oxo- (9CI) (CA INDEX NAME)



RE.CNT 5 THERE ARE 5 CITED REFERENCES AVAILABLE FOR THIS RECORD
 ALL CITATIONS AVAILABLE IN THE RE FORMAT

=> d his full

(FILE 'HOME' ENTERED AT 13:16:01 ON 07 JUN 2006)

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L1 STRUCTURE UPLOADED
D
L2 0 SEA SSS SAM L1
L3 3 SEA SSS FUL L1

FILE 'CAPLUS' ENTERED AT 13:16:44 ON 07 JUN 2006

L4 3 SEA ABB=ON PLU=ON L3
D QUE L4 STAT
D BIB ABS HITSTR
D 2-3 BIB ABS HITSTR
E CLEMENT ANTOINE/AU
L5 20 SEA ABB=ON PLU=ON "CLEMENT ANTOINE"/AU
E ARQUINT ALFONS/AU
L6 12 SEA ABB=ON PLU=ON "ARQUINT ALFONS"/AU
E LAUK URS/AU
L7 39 SEA ABB=ON PLU=ON ("LAUK URS"/AU OR "LAUK URS H"/AU)
L8 49 SEA ABB=ON PLU=ON L5 OR L6 OR L7
L9 6 SEA ABB=ON PLU=ON L8 AND PHTHALIM?
D QUE L9 STAT
D 1-6 BIB ABS

FILE 'REGISTRY' ENTERED AT 13:49:22 ON 07 JUN 2006

L10 STRUCTURE UPLOADED
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L12 1 SEA SSS FUL L10

FILE 'CAPLUS' ENTERED AT 13:50:07 ON 07 JUN 2006

L13 1 SEA ABB=ON PLU=ON L12
D QUE L13 STAT
D BIB ABS HITSTR

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* the IDE default display format and the ED field has been added, *

* effective March 20, 2005. A new display format, IDERL, is now *
* available and contains the CA role and document type information. *
*

Structure search iteration limits have been increased. See HELP SLIMITS
for details.

REGISTRY includes numerically searchable data for experimental and
predicted properties as well as tags indicating availability of
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